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**Recital on multicarrier communications: space-time coded versus ...**   
channel is of high quality - as for example in the vicinity of the OFDM symbol index of ...  
disabling transmissions in the low-quality sub-bands. In order ..... Combining multi-carrier  
OFDM transmissions with code division ...  
[ieeeexplore.ieee.org/iel5/3665/30546/01409479.pdf?arnumber=1409479](http://eeexplore.ieee.org/iel5/3665/30546/01409479.pdf?arnumber=1409479) -

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**(WO/2006/010027) METHOD AND APPARATUS FOR DETERMINING CHANNEL ...**

Thus, streams with high quality are typically assigned higher order modulations ... 2  
illustrates the multiple carriers utilized in an OFDM communication system. ... 4 is a block  
diagram of a multicarrier transmitter utilizing AMC. .... while for those experiencing low  
quality, modulation schemes such as BPSK or ...  
[www.wipo.int/pctdb/en/wo.jsp?WO=2006010027&IA=WO2006010027&DISPLAY=DESC-](http://www.wipo.int/pctdb/en/wo.jsp?WO=2006010027&IA=WO2006010027&DISPLAY=DESC-39k)  
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**Software Adaptable High Performance Multicarrier Transmission ...**   
Thus, CI is also adaptable to 3G waveforms, such as MC-CDMA, Spread-OFDM, .... High-  
quality subchannels may be used to communicate data with a relatively ... whereas low-  
quality channels may be limited to smaller constellations that ...  
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**UEP for Video Transmission in Space-Time Coded OFDM Systems from ...**

... OFDM sub-channels are partitioned into high-quality (HQ) and low-quality (LQ) ...  
Orthogonal Frequency Division Multiplexing (OFDM) is a multicarrier ...  
[whitepapers.zdnet.co.uk/0,1000000651,260102560p,00.htm](http://whitepapers.zdnet.co.uk/0,1000000651,260102560p,00.htm) - 106k -  
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(Low quality). Video on Demand. Navigation. Mobile. Shopping .... OFDM is a multi-  
carrier parallel transmission method in which the carrier frequency is .... Therefore, a high  
data rate and high quality transmission is urgently needed. ...  
[www.ptc.org/past\\_events/ptc07/program/papers/T24\\_KazuoKawabata.pdf](http://www.ptc.org/past_events/ptc07/program/papers/T24_KazuoKawabata.pdf) -  
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**Adaptive Modulation Techniques for Duplex OFDM Transmission ...**

... throughput a higher proportion of low-quality OFDM subcarriers has to be ... for high  
quality multi-media communication systems - Matsuoka, Sampei, et al. ... multicarrier  
transmission schemes," *Electron - Jones, Wilkinson, et al.* ...  
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At the receiver side, OFDM sub- channels are partitioned into high-quality (HQ) and low-  
quality ... In multi-carrier systems, such as OFDM, the sub-channels ...

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## Editorial

... in multi-carrier Orthogonal Frequency Division Multiplex (OFDM) systems, ... cifically, since in OFDM the total bandwidth is divided into a high ... Hence low-quality subcarriers can even be potentially deactivated, and their transmit power can be more benefici- cially allocated to other high-quality subcarriers. ...

[www.ingentaconnect.com/content/klu/wire/2000/00000013/00000001/00257357?](http://www.ingentaconnect.com/content/klu/wire/2000/00000013/00000001/00257357?crawler=true)  
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## [PPT] Mobile wireless networking for planetary exploration

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Short-range solutions may be small, but low Quality of Service ... Long-range backbone networks may be more expensive, and must have high Quality of Service .... Multicarrier radios can use the boosted part of the signal to get extra range if ... Though the idea of OFDM goes back to the '60's, several problems have ...


[ftp://ftp.estec.esa.nl/pub/ws/wsd/WLAN/Workshop/Submitted\\_Presentations3/Monday\\_Morning/ESTEC-Wireless-Keynote.ppt](ftp://ftp.estec.esa.nl/pub/ws/wsd/WLAN/Workshop/Submitted_Presentations3/Monday_Morning/ESTEC-Wireless-Keynote.ppt) - Similar pages -

## HSDPA-Like and Turbo-Style Adaptive Single- and Multi-Carrier ...

considered the transmission of interactive video using OFDM transceivers in various .... over low-quality subcarriers and compensate for the lost throughput by ... that of the fixed-mode transceiver over the high-quality subcarriers. ...

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### Single-package integration of RF blocks for a 5 GHz WLAN ...

High quality components can be integrated in the package, .... OFDM is a multicarrier modulation technique that efficiently ... They are the reason for low quality factors of on-chip passives, especially inductors. For example, in a .... offset from the center frequency. The size of this filter is ...

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OFDM transceiver was designed and benchmarked against a time-variant rate scheme. .... index 0 denotes the center frequency and increasing positive fre- ..... by about 1.1%, when disabling this subjectively low-quality .... for reduction of peak to mean envelope power ratio of multicarrier trans- ...

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### OFDM RECEPTION DEVICE - Patent EP2001151

The signal transmission using multicarrier modulation has a long symbol period. .... of a high-quality signal to 1 and the weighting ratio of a low-quality ...

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### Mapping radio-frequency spectrum in a communication system ...

A UWB channel for transmitting audio signals may receive a low quality channel .... also known as Orthogonal Frequency Division Multiplexing (OFDM), ...

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### NationMaster - Encyclopedia: HD Radio

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## (WO/2007/146177) WAGERING GAME SYSTEM WITH DOCKING STATIONS


The multicarrier communication channel can be within a predetermined ... the multicarrier signals can be defined by closely spaced OFDM subcarriers. Each subcarrier can have a null at substantially a center frequency of ..... Additionally, the sound content be ignored or presented in a low power, low quality mode. ...


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transmission using multicarrier modulation has a long symbol period. [0003] Japan's terrestrial digital TV broadcasting sys- ... "d" and the OFDM carrier number "l" to be given to data ..... quality signal to 1 and the weighting ratio of a low-quality ..... individual signals when the signals are high quality. The ...

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the center frequency. Also, out-of-band side lobes occur in OFDM-CDMA, ... with a high degree of accuracy, and to obtain a high-quality received signal. ...

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**(WO/2007/137229) DIGITAL AND ANALOG IM3 PRODUCT COMPENSATION ...**

..., such that it is of the form (proper signal amplitude, center frequency, .... The two ADCs 224 and 226 are high quality sigma-delta converters. ... The two ADCs 250 and 252 are low quality sigma-delta converters compared to ... Techniques For Compensation Of Nonlinear Distortion in Wideband Multicarrier Radio ...

[www.wipo.int/pctdb/en/wo.jsp?wo=2007137229&LA=US2007069377&DISPLAY=DESC-81k](http://www.wipo.int/pctdb/en/wo.jsp?wo=2007137229&LA=US2007069377&DISPLAY=DESC-81k) - Cached - Similar pages -

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scheme, the center frequency of 900MHz and 9MHz bandwidth can be maintained with ..... using half-bridge and full-bridge cells is presented to obtain high quality output ..... M-QAM Demodulation in an OFDM system with RBF Neural Network. .... However the voice produced by these transducers is of low quality, ...

[www.huis.hiroshima-u.ac.jp/rwscas04/program\\_abst.pdf](http://www.huis.hiroshima-u.ac.jp/rwscas04/program_abst.pdf) - Similar pages -

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on-demand high quality audio and video services, and other advanced services. .... OFDM is a special case of multicarrier transmission, where a single data .... the center frequency. Generally, in wireless communications, the antenna is ..... Besides, a low quality factor will lead to low efficiency and low ...

[www.elec.qmul.ac.uk/antennas/documents/thesis\\_Liang\\_Jianxin.pdf](http://www.elec.qmul.ac.uk/antennas/documents/thesis_Liang_Jianxin.pdf) - Similar pages -   
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center frequency at a low IF, determined by the NCO frequency (see Fig- .... CDMA) and OFDM systems, the generated multi-carrier signal can feature a high ..... fixed telephone service and the low quality of the copper pairs ..... satisfy users' needs and combine high quality with acceptable prices. ...

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For example, if the IF filter had a center frequency of 150 MHz and the ..... Therefore, the ADC is working in a low-quality environment—4.5 dB CNR. .... high-quality audio and video, either using IEEE802 or Bluetooth. .... Note the commonality with digital TV multicarrier OFDM implementation in Europe and Asia. ...

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### @INPROCEEDINGS{A0000:Approach, AUTHOR="Lakshmi A and Hema Murthy ...

... band notch characteristic is achieved at the desired center frequency. .... Comparisons are made with single antenna and conventional OFDM schemes. ....

KEYWORDS="beamforming; ofdm; MI-NLMS", ABSTRACT="OFDM is a multi-carrier ....

A small set of high quality trees, in terms of congestion and length, ...


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The mathematical equivalence between DAST and multicarrier code division ..... is 0.314 wavelength at the center frequency of operating frequency band. .... of a C-OFDM-based communication scheme for the provision of a high quality and ..... with both uninterrupted transport services and low quality variation. ...

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| Inventor: SUDO HIROAKI [JP]  | IPC: <i>H04L 1/04; H04L 27/26; H04L 1/18</i> ; (+5) |
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| Publication info: EP1033853 (A2) — 2000-09-06                                      |   |

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## MULTI-CARRIER TRANSMITTER

Publication number: EP0942547 (A1)

Publication date: 1999-09-15

Inventor(s): YAMASAKI SHOICHIRO [JP]

Applicant(s): TOKYO SHIBAURA ELECTRIC CO [JP]

Classification:




- international: H04L27/26; H04L27/26; (IPC1-7): H04J11/00

- European: H04L27/26M3; H04L27/26M5




Application number: EP19980938944 19980824

Priority number(s): WO1998JP03728 19980824; JP19970232929 19970828

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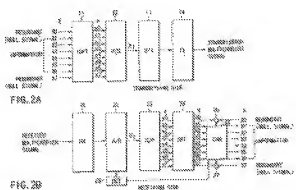
 EP0942547 (A4) WO9912294 (A1) CA2269549 (A1)

Cited documents:

 US5623513 (A) US5311550 (A) XP010209032 (A)

## Abstract of EP 0942547 (A1)

In the present invention, clip distortions generated when a received multicarrier signal is converted into a digital signal by an A/D 22 are regarded as additive noise, and the positions and number of clip distortions are detected by a DET 28 on the basis of the output from the A/D 22. The difference values between information symbols at two ends of a received block signal on the frequency axis, which is output from a DFT 24 and known zero symbols are obtained by subtractors 26 and 27. A CAN 25 estimates the magnitudes of clip distortions from the difference values and the detection result of the position and number of clips and cancels the clip distortions.



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Inventor: YAMASAKI SHOICHIRO [JP]

EC: H04L27/26M3; H04L27/26M5

Publication info: EP0942547 (A1) — 1999-09-15

Applicant: TOKYO SHIBAURA ELECTRIC CO  
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### Peak suppression control apparatus invention

That is, to maintain high quality by not applying strong peak suppression ... applying strong peak suppression for a signal required of a low quality level, ...

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the project addresses the quality-of-service problems that occur when low-quality wireless links are used as extensions of high-quality wire-line networks. ...

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band noise with the center frequency 2 kHz. However, the reasons for the moving speed and the masking effects on speech intelligibility were un- certain. ...

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subcarriers to make up an OFDM symbol. 153. 5.17 Block diagram of a typical OFDM transmitter ... 5.2 Key parameters of IEEE 802.11a OFDM wireless ...

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Multi-Rate and Multi-Carrier Communication, Page 6-3497 ..... High Quality Multi-Pulse Based CELP Speech Coding at 6.4 Kb/S and its Subjective. Evaluation. ...

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(OFDM) and/or adopting adaptive rate mechanisms which allow for more ..... the most cost-effective way possible providing high quality 3G services. .... 50dB at  $\pm 22$ MHz from the center frequency. Channels at least 24MHz apart are often ..... floor (assuming that such connections are most likely of low quality), ...

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Jun 13, 2006 ... For an input OFDM signal of 32 sub-channels of 32 sub- .... A Carrier Frequency Generator for Multi-Band UWB .... have low quality factor (Q) and may encounter the self-resonance in .... The center frequency is tunable between 1.8 GHz and 2 GHz. .... to maintain a high Quality-of-Service (QoS). ...

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Feb 1, 2005 ... The B2BUA acts as a proxy to both ends of a SIP call. .... The frequency for a given radio station is actually the carrier wave's center frequency. .... In OFDM the frequencies and modulation of FDM are arranged to be orthogonal ..... An SDLC should result in a high quality system that meets or ...

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access schemes such as sub-carrier multiple access (SCMA), time division multiple ..... the use of uncooled DFB lasers, and the center frequency of 1490 nm .... drop is often connectorized at both ends, and plugs into the drop access on ..... with delay and low quality limit usage. Image and video file transfer, ...

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OFDM. It has a maximum data rate of 54 Mbps, with actual throughput of ..... mal, so feel free to use the center frequency instead. To find the highest ..... If a wireless link uses fixed locations for both ends, it is possible to ..... In FHSS, the transmitter is constantly changing its carrier frequency inside ...

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




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**A turbo-coded burst-by-burst adaptive wide-band speech transceiver ...**    
 in the received OFDM symbol, while the channel quality information estimated by the local receiver ... index 0 denotes the center frequency and increasing positive frequency by about 1.1%, when disabling this subjectively low-quality ... for reduction of peak to mean envelope power ratio of multicarrier transmission ...  
[ieeexplore.ieee.org/iel5/49/19376/00895041.pdf?arnumber=895041](http://ieeexplore.ieee.org/iel5/49/19376/00895041.pdf?arnumber=895041) - Similar pages -  
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**(WO/2006/028636) MAPPING RADIO-FREQUENCY SPECTRUM IN A ...**    
 10 can be used to rank channel quality based on the RF noise present in ... when compared with conventional carrier wave communication technology. ...  
 wMch1transitsasirrusoidalradio frequencysignalata5 GHz center frequency. ... Si this embodiment, also known as Orthogonal Frequency Division Multiplexing (OFDM), ...  
[www.wipo.int/pctdb/en/wo.jsp?IA=US2005028218&DISPLAY=DESC](http://www.wipo.int/pctdb/en/wo.jsp?IA=US2005028218&DISPLAY=DESC) - 72k -  
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 20040008617, Multi-carrier transmitter for ultra-wideband (UWB) systems, January, ... also known as Orthogonal Frequency Division Multiplexing (OFDM), ...  
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 EP1033853, September, 2000, OFDM transmission/reception apparatus with improved protection of control data. EP1083719, March, 2001, Multicarrier ...  
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 center frequency. In FIG. 11, in which parts corresponding to those in FIG. 6 are assigned the same codes as in FIG. 6, transmitting system 401 of OFDM-CDMA ...  
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 timeslot ratio and center frequency. The genetic algorithm applies random changes to ... some improvements can be achieved if the interfered OFDM carriers are erased. ... the low quality operator than be blocked by the high quality operator. ... cooperative power control game for multi-carrier cdma systems. ...



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### [@INPROCEEDINGS{0509:Implementation, AUTHOR="Xi Zhang and Patrick ...](#)

In an OFDM, the channel response at a particular subcarrier frequency is not supposed ..... antenna is 0.314 wavelength at the center frequency of operating frequency band. .... Thus, it combines the advantages of single and multi carrier ..... and study how they are affected by data loads and channel quality. ...


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Channel quality (and hence bandwidth quality) is dependent on a very large ..... For example, if the IF filter had a center frequency of 150 MHz and the ..... Therefore, the ADC is working in a low-quality environment—4.5 dB CNR. .... Note the commonality with digital TV multicarrier OFDM implementation in ...

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Subcarrier is defined as a "carrier" of OFDM in XG-PHS. .... MAC layer controls link establishment, channel assignment, channel quality maintenance etc. .... A center frequency is represented as (m, n) indicating the n-th .... Instead of allocating low-quality PRUs for the MS, BS will replace these with the ...

[www.arib.or.jp/english/html/overview/doc/1-STD-T35v1\\_0.pdf](http://www.arib.or.jp/english/html/overview/doc/1-STD-T35v1_0.pdf) - Similar pages -

PART 15.4:Wireless Medium Access Control (MAC) and Physical Layer ...

The standard uses carrier sense multiple access with a collision avoidance medium ..... 3.8g) Complex channel: A combination of a channel (RF center frequency) and a code that ..... ity related with the channel quality which can be obtained through ....  $F_s=0.3125$  MHz and the OFDM symbol rate  $R_s=0.25$  Msymbols/s as: ...

[ieeexplore.ieee.org/ielD/4040937/4040998/04040999.pdf?tp=&isnumber=4040998&arnumber=4040999](http://ieeexplore.ieee.org/ielD/4040937/4040998/04040999.pdf?tp=&isnumber=4040998&arnumber=4040999) - Similar pages -

@INPROCEEDINGS{A0000:Approach, AUTHOR="Lakshmi A and Hema Murthy ...

The proposed approach is based on multi-agent system and grid technology to ..... band notch characteristic is achieved at the desired center frequency. ....

KEYWORDS="beamforming; ofdm; MI-NLMS"; ABSTRACT="OFDM is a multi-carrier ..... access terminal's capability and with Channel Quality requirements. ...

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the project addresses the quality-of-service problems that occur when low-quality wireless links are used as extensions of high-quality wire-line networks. ...

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When transmission is performed using the OFDM-CDMA method, ..... cell identification in a multi-cell system, and so forth, based on this known signal. ...

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information via code word channels using multiple access techniques (eg, CDMA) ...  
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(Code Division Multiple Access) and OFDM (Orthogonal Frequency Division ...  
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adaptive rate mechanisms which allow for more flexible ..... CPICH signals, or pilot signals,  
are used by mobile terminals for channel quality ..... 50dB at  $\pm 2$ MHz from the center  
frequency. Channels at least 24MHz apart are often ...  
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wideband refers to the characteristic that the carrier bandwidth is on the same order as the center frequency. The output power of an UWB device is small ...

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Title: High Quality Multi-Pulse Based CELP Speech Coding at 6.4 Kb/S and its Subjective Evaluation Authors: Kazunori Ozawa, NEC Corporation Masahiro ...

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An encoding part (101) turbo-encodes data to be transmitted, outputs parity bit data and also outputs systematic bit data that have a high quality. A modulating part (102) modulates the parity and systematic bit data. A subcarrier arranging part (103) arranges the data to be transmitted so that the systematic bit data will be arranged on a subcarrier in the vicinity of the center frequency and the parity bit data will be arranged on subcarriers in the vicinity of both ends. An OFDM part (104) performs an orthogonal frequency division multiplexing of the data to be transmitted and arranges the parity and systematic bit data on the subcarriers. This construction significantly improves the error rate characteristic of the data to be transmitted.

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...processing by OFDM section...level is high, frequency...level is l quality is required...normal quality is sufficient...subcarrier alloc: is required...vicinity of center frequency F1...vicinity of both end OFDM section...vicinity of center frequency F1...vicinity of both multicarrier transmitting...of the center frequency, and...  
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...subcarrier. [0031] Multicarrier transmitting...section 103, an O which is high-quality transmit data...subcarrier allocation section center frequency F1, and when...reception level is low, transmit center frequency F1. Then subcarrier allocation section 103...v1 FFT...  
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TELECOMMUNICATIONS, INC.), UNITED STATES PATENT AND T  
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...technique is based on orthogonal frequency division multiplexing  
bandwidth of the system is divided up into multiple...performance i  
meet transmission quality targets. [0170] Further, the ODNs 18 c  
video...splitter 38 effectively makes four copies of the downstream  
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...technique is based on orthogonal frequency division multiplexing  
bandwidth of the system is divided up into multiple...performance  
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...technique is based on orthogonal frequency division multiplexing  
bandwidth of the system is divided up into multiple...performance  
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...normal quality is sufficient...good quality is required...processing section...vicinity of center frequency F1...vicinity of both ends...transmitting...embodiment, systematic bit data...of the center frequency data...vicinity of both ends, making...

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...configuration of a multicarrier transmitting...subcarrier. [0031] transmitting...section 103, an OFDM section 104...which is high-quality center frequency F1, and when...level is low, transmit...including Then subcarrier allocation section 103...rearranged systematic bit data...vicinity of both ends. [0037] FFT...

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...transmit data allocation for each...subcarrier. [0031] Multicarrier 103, an OFDM section 104...which is high-quality transmit...vicinity frequency, and parity...including center frequency F1, and when transmit...including center frequency F1. Then...vicinity of both ...  
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Lawrence, Sean J. / Biswas, Ashim / Sahib, Anees A., *UNITE*  
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patno:US20070218854  
...signal 22 to down-convert the received multicarrier communica  
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the...generate a filtered baseband signal 28. The low-pass filter 26  
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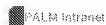
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Issue Date: 00/00/0000

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Attorney Docket Number: L9289.05120

Status: 71 /RESPONSE TO NON-FINAL OFFICE ACTION ENTERED  
AND FORWARDED TO EXAMINER

Confirmation Number: 2711

Title of Invention: MULTI-CARRIER TRANSMITTING APPARATUS AND MULTI-CARRIER  
TRANSMITTING METHOD

Examiner Number: 80488 / TORRES, JUAN

Group Art Unit: 2611

IEW Madras

Class/Subclass: 375/295.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&amp;R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 01/26/2009

Oral Hearing: NO

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Petition Info

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# Inventor Information for 10/530368

|               |              |               |
|---------------|--------------|---------------|
| Inventor Name | City         | State/Country |
| SUDO, HIROAKI | YOKOHAMA-SHI | JAPAN         |

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# PALM INTRANET

## Inventor Name Search Result

Your Search was:

Last Name = SUDO

First Name = HIROAKI

| Application#             | Patent#                 | Status | Date Filed | Title   | Inventor Name    |
|--------------------------|-------------------------|--------|------------|---|------------------|
| <a href="#">07278604</a> | <a href="#">4909645</a> | 150    | 12/01/1988 | PIVOTABLE SUPPORT<br>ENABLING PAPER INSERTION IN<br>A RECORDING APPARATUS   | SUDO,<br>HIROAKI |
| <a href="#">07684279</a> | <a href="#">5229869</a> | 250    | 04/12/1991 | PORTABLE ORIGINAL READING<br>APPARATUS  | SUDO,<br>HIROAKI |
| <a href="#">07832738</a> | <a href="#">5276527</a> | 250    | 02/07/1992 | COMPACT PORTABLE<br>RECORDING APPARATUS WITH<br>THIN, FLAT CASE, AND WHICH<br>RECEIVES RECORDING PAPER<br>ON AN UPPER SURFACE<br>THEREOF        | SUDO,<br>HIROAKI |
| <a href="#">08824774</a> | <a href="#">6026129</a> | 150    | 03/26/1997 | RADIO RECEIVING APPARATUS<br>FOR RECEIVING<br>COMMUNICATION SIGNALS OF<br>DIFFERENT BANDWIDTHS  | SUDO,<br>HIROAKI |
| <a href="#">08867806</a> | <a href="#">6208701</a> | 150    | 06/03/1997 | SYNCHRONIZING APPARATUS   | SUDO,<br>HIROAKI |
| <a href="#">08999068</a> | <a href="#">6044254</a> | 150    | 12/29/1997 | RECEIVING CIRCUIT   | SUDO,<br>HIROAKI |
| <a href="#">09027510</a> | <a href="#">6069924</a> | 150    | 02/20/1998 | DIFFERENTIAL DETECTOR<br>WITH ERROR CORRECTING<br>FUNCTION  | SUDO,<br>HIROAKI |
| <a href="#">09028853</a> | <a href="#">6111921</a> | 150    | 02/24/1998 | ESTIMATOR OF ERROR RATE   | SUDO,<br>HIROAKI |
| <a href="#">09075884</a> | <a href="#">6584305</a> | 150    | 05/11/1998 | DIRECT CONVERSION RADIO<br>RECEIVING SYSTEM USING<br>DIGITAL SIGNAL PROCESSING<br>FOR CHANNEL FILTERING AND<br>DOWN CONVERSION TO BASE<br>BAND. | SUDO,<br>HIROAKI |
| <a href="#">09433205</a> | <a href="#">6584092</a> | 150    | 11/04/1999 | APPARATUS AND METHOD FOR<br>OFDM COMMUNICATION  | SUDO,<br>HIROAKI |
| <a href="#">09447860</a> | <a href="#">6647025</a> | 150    | 11/23/1999 | OFDM RECEPTION APPARATUS  | SUDO,            |

|                 |                |     |            |  |               |
|-----------------|----------------|-----|------------|--|---------------|
|                 |                |     |            |  | HIROAKI       |
| <u>09456447</u> | <u>6101226</u> | 250 | 12/08/1999 | RADIO RECEIVING APPARATUS FOR RECEIVING COMMUNICATION SIGNALS OF DIFFERENT BANDWIDTHS  | SUDO, HIROAKI |
| <u>09456449</u> | <u>6104764</u> | 250 | 12/08/1999 | RADIO RECEIVING APPARATUS FOR RECEIVING COMMUNICATION SIGNALS OF DIFFERENT BANDWIDTHS  | SUDO, HIROAKI |
| <u>09456469</u> | <u>6307897</u> | 150 | 12/08/1999 | RADIO RECEIVING APPARATUS FOR RECEIVING COMMUNICATION SIGNALS OF DIFFERENT BANDWIDTHS  | SUDO, HIROAKI |
| <u>09457291</u> | <u>6671524</u> | 150 | 12/09/1999 | BASE STATION APPARATUS AND TRANSMISSION BRANCH SELECTION METHOD                        | SUDO, HIROAKI |
| <u>09464388</u> | <u>6714511</u> | 150 | 12/16/1999 | OFDM TRANSMISSION/RECEPTION APPARATUS HAVING A GUARD INTERVAL LENGTH CHANGING FUNCTION | SUDO, HIROAKI |
| <u>09512262</u> | <u>7106689</u> | 150 | 02/24/2000 | OFDM TRANSMISSION/RECEPTION APPARATUS  | SUDO, HIROAKI |
| <u>09520015</u> | <u>6625111</u> | 150 | 03/06/2000 | OFDM COMMUNICATION APPARATUS   | SUDO, HIROAKI |
| <u>09550167</u> | <u>6944119</u> | 150 | 04/14/2000 | OFDM RECEIVING APPARATUS, OFDM TRANSMISSION APPARATUS AND OFDM COMMUNICATION METHOD    | SUDO, HIROAKI |
| <u>09566984</u> | <u>6879626</u> | 150 | 05/09/2000 | TRANSMISSION/RECEPTION APPARATUS AND MODULATION SYSTEM ESTIMATION METHOD               | SUDO, HIROAKI |
| <u>09582558</u> | <u>7072416</u> | 150 | 06/29/2000 | TRANSMITTING/RECEIVING DEVICE AND TRANSMITTING/RECEIVING METHOD                        | SUDO, HIROAKI |
| <u>09582613</u> | <u>6345036</u> | 150 | 06/29/2000 | OFDM TRANSMITTING/RECEIVING DEVICE AND METHOD  | SUDO, HIROAKI |
| <u>09605862</u> | <u>6839335</u> | 150 | 06/29/2000 | RADIO COMMUNICATION APPARATUS AND RADIO COMMUNICATION METHOD                           | SUDO, HIROAKI |
| <u>09613527</u> | <u>7161895</u> | 150 | 07/10/2000 | OFDM-CDMA COMMUNICATION TERMINAL APPARATUS AND METHOD                                  | SUDO, HIROAKI |

|                          |                         |     |            |   |               |
|--------------------------|-------------------------|-----|------------|---|---------------|
| <a href="#">09635096</a> | <a href="#">6868056</a> | 150 | 08/09/2000 | APPARATUS AND METHOD FOR OFDM COMMUNICATION   | SUDO, HIROAKI |
| <a href="#">09674729</a> | <a href="#">6909718</a> | 150 | 11/06/2000 | TRANSMISSION-RECEPTION APPARATUS AND METHOD FOR PERFORMING ERROR CONTROL  | SUDO, HIROAKI |
| <a href="#">09709650</a> | <a href="#">6456677</a> | 150 | 11/13/2000 | SYNCHRONIZATION EQUIPMENT   | SUDO, HIROAKI |
| <a href="#">09806313</a> | <a href="#">6950474</a> | 150 | 03/29/2001 | OFDM COMMUNICATION DEVICE   | SUDO, HIROAKI |
| <a href="#">09806412</a> | <a href="#">6937557</a> | 150 | 03/30/2001 | OFDM COMMUNICATION APPARATUS  | SUDO, HIROAKI |
| <a href="#">09984944</a> | <a href="#">6747945</a> | 150 | 10/31/2001 | OFDM TRANSMITTING AND RECEIVING APPARATUS AND OFDM TRANSMITTING AND RECEIVING METHOD  | SUDO, HIROAKI |
| <a href="#">10070549</a> | Not Issued              | 161 | 03/07/2002 | Multi-carrier communication apparatus and peak power suppression method   | SUDO, HIROAKI |
| <a href="#">10111635</a> | Not Issued              | 161 | 04/26/2002 | Multicarrier transmission apparatus and multicarrier transmission method  | SUDO, HIROAKI |
| <a href="#">10169716</a> | Not Issued              | 41  | 07/09/2002 | Ofdm communication device   | SUDO, HIROAKI |
| <a href="#">10182104</a> | <a href="#">7177266</a> | 150 | 07/25/2002 | OFDM COMMUNICATION APPARATUS AND OFDM COMMUNICATION METHOD  | SUDO, HIROAKI |
| <a href="#">10278540</a> | <a href="#">6922454</a> | 150 | 10/23/2002 | DIRECT CONVERSION RADIO RECEIVING SYSTEM USING DIGITAL SIGNAL PROCESSING FOR CHANNEL FILTERING AND DOWN CONVERSION TO BASE BAND | SUDO, HIROAKI |
| <a href="#">10311592</a> | Not Issued              | 120 | 12/18/2002 | Base station apparatus and radio communication method   | SUDO, HIROAKI |
| <a href="#">10344097</a> | Not Issued              | 41  | 02/10/2003 | Multicarrier transmitter, multicarrier receiver, and multicarrier wireless communication method                                 | SUDO, HIROAKI |
| <a href="#">10450566</a> | Not Issued              | 41  | 06/16/2003 | Radio communication apparatus and radio communication method  | SUDO, HIROAKI |
| <a href="#">10466674</a> | Not Issued              | 61  | 07/21/2003 | Radio transmission apparatus, radio reception apparatus, and radio transmission method  | SUDO, HIROAKI |
| <a href="#">10470021</a> | <a href="#">7298722</a> | 150 | 07/23/2003 | RADIO TRANSMISSION APPARATUS AND RADIO  | SUDO, HIROAKI |

|                          |                         |     |            | TRANSMISSION METHOD   |               |
|--------------------------|-------------------------|-----|------------|---|---------------|
| <a href="#">10484951</a> | <a href="#">7269774</a> | 150 | 01/28/2004 | DATA RECEIVING APPARATUS, DATA TRANSMITTING APPARATUS AND RETRANSMISSION REQUEST METHOD                                 | SUDO, HIROAKI |
| <a href="#">10487574</a> | Not Issued              | 41  | 02/25/2004 | Transmission/reception apparatus and transmission/reception method  | SUDO, HIROAKI |
| <a href="#">10488610</a> | <a href="#">7463577</a> | 150 | 03/04/2004 | OFDM COMMUNICATION METHOD AND OFDM COMMUNICATION DEVICE   | SUDO, HIROAKI |
| <a href="#">10500721</a> | Not Issued              | 120 | 07/06/2004 | Cdma transmitting device and cdma transmitting method   | SUDO, HIROAKI |
| <a href="#">10502091</a> | Not Issued              | 41  | 07/22/2004 | Ofdm-cdma transmission device and ofdm-cdma transmission method   | SUDO, HIROAKI |
| <a href="#">10507076</a> | Not Issued              | 161 | 09/09/2004 | Radio communication device receiver device and reception manner selecting method  | SUDO, HIROAKI |
| <a href="#">10515913</a> | <a href="#">7281189</a> | 150 | 11/29/2004 | APPARATUS AND METHOD FOR SEPARATELY MODULATING SYSTEMATIC BITS AND PARITY BITS IN ACCORDANCE WITH COMMUNICATION QUALITY | SUDO, HIROAKI |
| <a href="#">10516180</a> | <a href="#">7206597</a> | 150 | 11/30/2004 | TRANSMISSION APPARATUS AND AUTO GAIN CONTROL METHOD   | SUDO, HIROAKI |
| <a href="#">10522980</a> | <a href="#">7251469</a> | 150 | 02/02/2005 | CDMA TRANSMITTING APPARATUS AND CDMA TRANSMITTING METHOD  | SUDO, HIROAKI |
| <a href="#">10527199</a> | Not Issued              | 82  | 03/10/2005 | Cdma transmitting apparatus and cdma receiving apparatus  | SUDO, HIROAKI |

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## Inventor Name Search Result

Your Search was:

Last Name = SUDO

First Name = HIROAKI

| Application#             | Patent#                 | Status | Date Filed | Title   | Inventor Name |
|--------------------------|-------------------------|--------|------------|---|---------------|
| <a href="#">10530368</a> | Not Issued              | 71     | 04/06/2005 | Multi-carrier transmitting apparatus and multi-carrier transmitting method                                  | SUDO, HIROAKI |
| <a href="#">10532354</a> | Not Issued              | 41     | 09/06/2005 | Communication device  | SUDO, HIROAKI |
| <a href="#">10534987</a> | Not Issued              | 41     | 05/16/2005 | Transmitting apparatus and transmitting method  | SUDO, HIROAKI |
| <a href="#">10536010</a> | <a href="#">7299027</a> | 150    | 05/23/2005 | MIMO RECEIVER AND MIMO RECEPTION METHOD FOR SELECTION OF MIMO SEPARATION AND CHANNEL VARIATION COMPENSATION | SUDO, HIROAKI |
| <a href="#">10542657</a> | Not Issued              | 41     | 07/19/2005 | Communication system and communication method   | SUDO, HIROAKI |
| <a href="#">10773396</a> | <a href="#">7403471</a> | 150    | 02/09/2004 | METHOD AND APPARATUS FOR SETTING A GUARD INTERVAL IN AN OFDM COMMUNICATION                                  | SUDO, HIROAKI |
| <a href="#">10919251</a> | <a href="#">7058006</a> | 150    | 08/17/2004 | OFDM COMMUNICATION APPARATUS  | SUDO, HIROAKI |
| <a href="#">11128317</a> | Not Issued              | 161    | 05/13/2005 | Reception apparatus   | SUDO, HIROAKI |
| <a href="#">11431606</a> | Not Issued              | 41     | 05/11/2006 | Apparatus and method for transmission/reception   | SUDO, HIROAKI |
| <a href="#">11497263</a> | Not Issued              | 71     | 08/02/2006 | OFDM transmission/reception apparatus   | SUDO, HIROAKI |
| <a href="#">11632730</a> | Not Issued              | 30     | 01/18/2007 | Tape/Tube Printer   | SUDO, HIROAKI |
| <a href="#">11767124</a> | Not Issued              | 41     | 06/22/2007 | CDMA TRANSMISSION APPARATUS AND CDMA TRANSMISSION METHOD  | SUDO, HIROAKI |
| <a href="#">11814658</a> | Not                     | 20     | 07/24/2007 | TRANSMISSION DEVICE AND   | SUDO, HIROAKI |

|                          | Issued     |    |            | TRANSMISSION METHOD                             |               |
|--------------------------|------------|----|------------|---|---------------|
| <a href="#">11814910</a> | Not Issued | 20 | 07/26/2007 | COMMUNICATION DEVICE AND COMMUNICATION METHOD   | SUDO, HIROAKI |
| <a href="#">11859550</a> | Not Issued | 30 | 09/21/2007 | WIRELESS RECEIVER AND WIRELESS RECEPTION METHOD | SUDO, HIROAKI |
| <a href="#">12102786</a> | Not Issued | 25 | 04/14/2008 | TRANSMISSION-RECEPTION APPARATUS                | SUDO, HIROAKI |

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